mosaic

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the george brown college of applied arts and technology

Meet the governors

The second in a series of articles introducing George Brown's Board of Governors. The Board has 12 members including the President of the College. The Executive Committee of the Board is comprised of the chairmen of the Property, Education and Finance Committees, along with the Chairman and Vice-Chairman of the Board and the President. This article introduces JoAnn Opperman, Chairman of the Property Committee and Gertrude Fatt, Chairman of the Education Committee.

JoAnn Opperman

JoAnn Opperman

JoAnn Opperman, at 32, is one of the youngest members of the Board of Governors. She was appointed by Toronto City Council in 1978 to represent the community. One of her main concerns as community representative, she says, is "to make sure the College is a good neighbor to its residential community". She represents the "neighborhood/community/taxpayer point of view".

This year Ms. Opperman was elected Chairman of the Property Committee, which is responsible for recommending various physical plant projects and their financing to the Board. Her assigned area in the College (all Board members have an internal area of concern, beside their external representation) is Community Services.

Her private vocation and avocation for many years has been pollution control and waste recovery. Activities in this area include being Senior Consultant for Resource Integration Systems, a firm specializing in solid waste recovery systems design and implementation. She is community development coordinator for the Is Five Foundation which operates Canada's largest non-municipally-sponsored reclaimed waste collection program. She is a member of the Toronto Recycling Action Committee, the Recycling Council of Ontario, and the Secondary Resource Development Council of Canada.

She's also a business partner with her husband in Nishnawbe Arts, a gallery featuring native art and crafts, located just south of Casa Loma Campus on Dupont Street. She is also a free-lance researcher and writer.

Ms Opperman has an interest in affirmative action at the College which goes back several years. One of her first contacts with George Brown, 10 years ago when she lived in the Casa Loma area, was to inquire about taking a part-time plumbing course. She was involved in home renovating at the time.

Not only was it unheard of — a woman learning a traditionally male trade like plumbing — but there was no part-time course available for homeowners. (Editor's note: a course in Plumbing Repair and Installation for the Homeowner was introduced by the Architectural Technology Division last September. Two women were enrolled.)

Ms. Opperman believes attracting women to non-traditional areas of the College is very important.

Gertrude Fatt

Gertrude Fatt

Gertrude Fatt, appointed to the Board of Governors by the Council of Regents four years ago, is Chairman of the Education Committee. This four-member committee reviews the educational soundness and cost of all proposed and present programs offered at the College.

Born in Toronto in 1912, Miss Fatt graduated from the University of Toronto with an Honours B.A. in English and History in 1935. She was a teacher at Georgetown High School in Georgetown, Ontario (1937-39); a teacher and department head at Central Technical High School in Toronto (1939-58); Principal

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Lieutenant-Governor opens 530 King Street East

The Honourable Pauline McGibbon, Lieutenant-Governor of Ontario, didn't cut a ceremonial ribbon when she opened the College's new Theatre Arts Building, at 530 King Street East, in April. She broke a leg.

Following the time-honored instructions given before a theatre opening to — "break a leg" — the Lieutenant-Governor broke the plaster leg, supplied by Artistic Director Joseph Shaw, with relish. President Doug Light, Chairman Robert Bradley, Theatre Arts students, guests and staff of the College looked on.

A special program marking the official opening included a humorous opening Prologue, written and presented by Joseph Shaw.

...Performing Arts then entered in the scheme:
Our erstwhile President's persistent dream.
The School of Dance was first to pave the way,
With Lois Smith commanding every day
The beat of battement, entrechat, fouetté.
Next came the Theatre — and welcome news!
A school to serve the Drama's heady muse,
It's early quarters modest, unassuming, and pro tem.
But what of that? such was, we know, the case in Bethlehem.
...Now, our new home — one time a foundry — is appropriately seen.
To be Royal in it's appointments — well it stands where King meets Queen.
Where once was furnace, hammer, and retort,
We now turn cartwheels of a different sort...

The Prologue was followed by sketches, dancing and songs by the Theatre Arts students. After the "break-a-leg" ceremony, Her Honour had an opportunity to chat informally with students and guests. A buffet lunch was prepared and served by Food Technology students under the direction of Master Chef Maurice Prior.

Graphic Arts student designs new College logo

President Doug Light announced in March that a new logo had been chosen for the College. The winner of the logo design contest was honored at a brief ceremony in the lecture theatre at St. James Campus.

Chosen from 100 submissions from the Graphic Arts Division, the logo was designed by second-year Graphic Design student Paul Campbell. The submissions were judged by a committee of professionals with experience in logo design: Chris Yaneff, Robert Burns and Gerry Riley.

In congratulating Mr. Campbell, Mr. Yaneff said that one of the most important features the selection committee had looked for was "uniqueness — it had to be registerable". Some of the submissions featured the College letters. But so many companies have initials and logos that look like GB, said Mr. Yaneff, that the letter-form designs had to be turned down.

Design Chairman Earl Walker called the new logo "dynamic, representing George Brown as a modern, aggressive College on the move".

Last summer Chris Yaneff was involved in selecting a logo for Metropolitan Toronto in honor of its Silver Anniversary. Two George Brown design students won first and second prizes in that contest (see Mosaic, fall '78).

Second-prize winner then, Kathy Stevenson, placed second in the George Brown competition. John Allanby received an honorable mention. For the winning logo Paul Campbell received his full tuition for one year. Runner-up Kathy Stevenson had her first-semester fee paid.

The new logo will be officially introduced on GB Comments, the President's newsletter. Usage guidelines for other College material are being developed by Student Services.

Logo designer Paul Campbell (right) honored at St. James ceremony in March. Left: Designer Chris Yaneff and President Doug Light.

Sister Marion named "RNAO Member Emeritus"

Sister Marion Barron, Dean of Nursing, was named a Member Emeritus of the Registered Nurses' Association of Ontario at a special meeting of the Alexandra Chapter, recently.

Sister Marion was presented with a pin and certificate recognizing her 40 years' service in the Association. The sisters at St. Michael's Hospital, where she worked for many years, presented her with roses.

Sister Marion began her nursing career as a graduate of St. Michael's School of Nursing. She also has a B.Sc. in Nursing from St. Louis University; a Master of Education in Nursing from Columbia University, New York; and a PhD. in Administration of Higher Education from the Catholic University of America in Washington.

From 1938 to 1948, she was a nurse, then supervisor and instructor at St. Michael's Hospital in Toronto. In 1948, she was appointed Supervisor of Operating Rooms. In 1951, she transferred to St. Joseph's Hospital in Toronto, where she was Director of the School of Nursing and of Nursing Services. In 1969, she returned to St. Michael's Hospital to become Director of the St. Michael's School of Nursing.

She became Dean of Nursing for George Brown College when administrative responsibility for St. Michael's, St. Joseph's, Toronto General, Toronto Western and Nightingale schools of nursing, was transferred to George Brown College in 1973.

Sister Marion who's retiring at the end of this academic year was honored by the Board of Governors and her colleagues at a dinner held on May 17 at Kensington Campus.

Sister Marion receives pin from Maureen Powers, Executive Director of the R.N.A.O.

Business graduate trains with Canada Packers

Mike Maccarone was hired by Canada Packers Limited as a management trainee a month after graduating from George Brown's five-semester Business Administration program, with a specialty in marketing, last year.

His job with the company involves working with computers to find the production cost and retail price of products in the cooked meats division. He's scheduled to go into sales work two months from now.

"The company trains its employees to become familiar with all aspects of the industry," he explains. This gives them a better overall understanding of the business for the time when they're ready to take on greater responsibilities.

"Next year, I will be a trading account manager. That means I'll be in charge of a specific account — like European Cuisine products."

Mr. Maccarone says the Marketing program at George Brown gave him a similar kind of variety. "The assignments got us out in the field working with business and industry. That's what I found helped me the most."

George Brown's five-semester program is taught in six semesters at some other colleges. "I liked the idea of getting my diploma sooner," says Mr. Maccarone, "and I didn't want to go to university." He came to the college directly from high school, but has held part-time and temporary jobs with several firms, including a warehouse job with Canadian Pacific. He says he enjoys his current job and hopes to stay on with Canada Packers.

Marketing graduate is manager

Zeev Landesberg, who graduated from George Brown's Marketing program last year, has his eye on the job of president of the large camera distributing company that he works for in Toronto. And his boss smiles assuredly as Landesberg tells the Mosaic of his future goals.

Mr. Landesberg has been with Interphoto Corporation of Canada Limited for less than a year. He started as a marketing trainee and is now manager in charge of purchasing, public relations, pricing, advertising and copywriting, among other things. His salary is in the $15,000 to $20,000 a year range.

"I wouldn't be here if I hadn't gone to George Brown, he says. "The students were great, and so were the instructors."

But Landesberg has always had a flare for business. In fact, he started his career long before enrolling at George Brown. While still in high school, he organized a window cleaning company during the summer months. He also held various part-time sales jobs. In his last two years at the college, he was a writer and salesman for City TV (see Mosaic Summer '77).

The Marketing program was highly recommended by a friend, who had just graduated, he says. "That didn't stop me from shopping around. But in the end, I thought George Brown's program was much more practical. They offered more courses directly related to marketing, such as advertising, public relations and salesmanship.

"I would definitely recommend the program to high school students interested in a career in marketing," he says.

Business program 'practical and progressive', graduate says

Camille Khoury started working as a management trainee in a large department store, Family Fair, right after graduating from George Brown's three-year marketing course.

He's been there less than a year and is now the assistant manager of the Scarborough outlet. His ambition is to become a manager, then district manager with the company, a division of Dylex Limited.

Camille had no problem getting a job after graduating, and attributes some of his success to the years he spent at the College.

"The program is designed to give students a lot of outside work. This involves going out into the business world, working with skilled people and writing reports on business operations," he explains.

After graduating from high school, Camille worked for about four years at another large department store — Towers. But he wasn't satisfied with his job, and began investigating business programs at various universities. In the end, Camille decided that the George Brown program was progressive and the most practical for him.

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people

New staff and changes

Health Services: Claudette Bernard, typist, Casa Loma. **Switchboard:** Barbara Buckley, operator, Casa Loma. **Maintenance:** David Harris, St. James; Richard Heaney, Kensington. **Industrial Training:** Patricia Jackson, typist, College Street; Mary Anderson, Jacqueline Martin and Dino Nassivera, development officers, College Street. **Audio Visual:** Winston Malcolm, technician, St. James; Robert Selcage, offset operator, Casa Loma. **Student Services:** Sylvia Harrison, Eleanor Murray, Maureen Shepherd, Norah Stevenson, and Marguerite Wilkinson, supply clerks, Nightingale. **Admissions:** Christine Pope and Elaine Maclachlan, clerks, Kensington; Thelma Marshall, clerk, St. James. **Payroll:** Marcia Smith, clerk, MacPherson. **Physical Resources:** David Nelson, trade journeyman, Casa Loma; Bernard Siedlecki, technologist, Casa Loma. **Graphic Arts:** Mara Stasiuk, clerk, St. James; Aubrey Barron, instructor (printing), St. James. **Food Technology:** Gary Janes, supply clerk, Kensington. **Business and Commerce:** Denise McDowell, clerk, St. James. **Bursar's Office:** Trevor McDonald, clerk, St. James. **Architectural Technology:** Kerwin Hiltz, instructor (stationary engineering), Casa Loma. **Information Systems:** Steven Petes, programmer analyst; William Beesley, analyst; James Jackson, analyst; Janet Haddad, keypunch operator; Melville Walker, software analyst; Jim Stapleton, programmer, Casa Loma. **Community Services:** Helen Mayers, Wendy Mellanby, Christine Mounsteven, Joanne Park, Marjorie Ray, technicians, Kensington; Teresa Was, nursery school assistant, Kensington. **Personnel:** Lee Colgate, director, MacPherson. **Registrar's Office:** Dr. Garry Watson, Registrar.

Departures

Farewell parties were held recently for the following staff: **Bruce Walker**, Information Systems; **John Ramdeen**, Accounting Department; and **John Henry**, Bookstore Manager.

Health Centre staff held a retirement dinner in April for **Mary O'Neill**. Mary has been receptionist at the Casa Loma Health Centre for the past year but her tenure with the College dates back to Jones Avenue.

Happenings

Congratulations to newly-wed Vija Avotins, instructor (upgrading program for graduate nurses), Nightingale, now Mrs. Baranovs.

Congratulations

Industrial Training and Continuing Education: Jim Michie has been named dean of the expanded division. Reporting to him will be Bob Struthers, new Chairman Continuing Education, and Alan Salmon, new Manager of Conferences and Seminars. **Principals:** Alec O'Reilly has been appointed Principal of Kensington Campus. Martin Kerman has been appointed Principal of College Campus. Barbara Ferrett has been appointed Principal of Nightingale in addition to her other responsibilities as Director of Student Services.

Meredith Egan

College staff were sorry to learn of the death of long-time friend and colleague Meredith Egan in May. Before his position as Assistant to Vice-President Howell Pritchard, Meredith was College Registrar. His quiet humour and good will will be sadly missed.

Radar expert is teacher at GBC

Ever read the book Green Beach by James Leasor, based on the Dieppe raid during World War Two? The book, which has sold a million copies printed in 12 languages, recounts the adventures of a British radar expert — Jack Missenthal, who is now a part-time color television instructor at George Brown College.

During the war, Jack was sent to the German-occupied French port of Dieppe to uncover the type of radar used by the enemy.

Leaving from the Isle of Wight with 10 Canadians as bodyguards, it was extremely important that Jack, who had extensive knowledge of British radar systems, not be captured. In fact, the soldiers were instructed to shoot Jack in the event of possible capture. Only two men returned, but the mission was a success. The British could now jam enemy radars during attacks.

For security reasons, the whole story remained a myth for years, although several fictional novels of the time made reference to Jack. Finally, a British publishing company commissioned author James Leasor to reveal the story in its entirety.

Meanwhile, Jack has appeared on several television and radio shows across Canada. He was encouraged to move to Canada, and did so about a year ago. The Ontario Science Centre in Toronto put Jack in touch with the college.

He's been teaching color television for more than six months and enjoys his work. "Color television uses almost every bit of today's technology, so you need a wide range of related experience. I love teaching. I'm a compulsive teacher," he says.

GBC teachers sympathize with language problem

When Jean Cheng arrived in Canada from Taiwan and entered the two-year Electrical Technician (design) program at the college, she could barely speak English. She had studied electronics for three years at a college in Taiwan and came to George Brown to familiarize herself with Canadian terms and techniques.

"The teachers sympathized with my language problem and helped me catch on quickly," she says. Otherwise, Jean found the program easy because of her background in the field.

After graduating in 1973, she went straight to work for Motorola Canada Limited, a company that manufactures and modifies communication systems. She started working on the assembly line as a junior technician. Today, Jean works in the custom products division, as a senior technician, modifying and repairing anything from intercom to personal page systems.

Gertrude Fatt *(continued from page 1)*

of Eastdale Vocational School for the Toronto Board of Education (1965-70); and Superintendant of Professional Services for the Toronto Board (1970-77).

Her professional interests in the past have included: membership in the Ontario Secondary School Teacher's Federation, the Ontario Association of Education Administrative Officials, and the International Comparative Education Society. She is Past President of the Toronto Chapter of the Council of Exceptional Children, and was formerly on the Board of Directors of the Wellesley Hospital School of Nursing, the Young Women's Christian Association, and the Canadian Conference on Children and Youth.

Recently retired, Miss Fatt's tanned face comes from vigorous work in her garden. A true sports fan, she supports the Toronto Maple Leafs.

Happenings

Women's service club helps Nursing student

Maizie Nelson, a first-year Nursing student at George Brown, recently won awards totalling $1,750 from the Soroptimist Club, a service organization whose members are professional women.

Ms. Nelson, who was nominated for the Training Awards through member Heidi Yamashita, was honored at the Toronto Chapter's April dinner meeting at the Royal York Hotel.

The purpose of the Training Awards Program is to give financial help to mature women for retraining and entry or re-entry into the work force. To qualify applicants had to meet the following criteria: 1) show qualities of maturity; 2) be either head of their household or have financial dependents; 3) need financial assistance to obtain educational training; 4) have not completed college or university.

Ms. Nelson, a single parent with two children, entered the Nursing program in January. She was previously a Registered Nursing Assistant and completed her grade 12 while working. She then entered the Pre Health Science program at the College and was subsequently accepted into Diploma Nursing.

Maizie Nelson thanks Soroptomists at April dinner meeting, Royal York Hotel.

IT WAS "VISUAL ARTS WEEK" AT ST. JAMES CAMPUS, APRIL 23-26. Students' projects were attractively displayed in the Atrium and throughout the Grephic Design, Commercial Art, Screenprinting and Signwriting areas.

The week started with a Special Guest Evening, Monday, with more than 300 management people from the advertising industry attending. Guests were potential employers of Graphic Design, Commercial Art, Screenprinting and Signwriting graduates. Some of the largest advertising agencies were represented including J. Walter Thompson, MacLaren Advertising and Foster Advertising. Their interviews with our students this year are e first, and some students have already been employed through contacts made at the exhibition.

Throughout the week, 300 to 400 students from local high schools visited the exhibition and toured the Graphic Design, Commercial Art, Screenprinting and Signwriting areas. The Graphic Design Department received compliments from management people and high school students and teachers alike on the excellence of our students' work.

TORONTO FRENCH SCHOOL STUDENTS OPENED MULTI-CULTURAL DAY FESTIVITIES at the St. Lawrence Market, March 15, with French version of the National Anthem. The program began at St. James Campus, in the morning, followed by a parade to the St. Lawrence Market where College and community V.I.P.s participated in an official opening. More than 30 different ethnic communities took part in this year's program and exhibits. It was the eighth annual Multi-Culturel Day organized by College students.

FASHION DESIGN STUDENTS pose for publicity photograph outside Case Loma Campus, in preparation for Fashion '79. The final fashion show of the year was held in the Conservatory at Casa Lome (the castle) in April. The show featured "Classic", "Cocktail Hour", "Fur", "Fine Frocks", "Avant Garde", "Leisure Living", and "Town" feshions. Designs were by outstanding first-year students, gradueting second-year students and third-year student Winnie Pang.

THE ANNUAL ATHLETICS AWARDS DINNER, honoring members of seven winning intramural teams, four extramural teams and 10 varsity teams, was held in the Kensington gym, April 11. President Doug Light (at podium above) addressed College ethletes and their guests and presented the Special Recognition Awards. Guest speaker Ken Clark, former punter with the Toronto Argonauts, and Director of Student Services Berbere Ferrett presented the Intra and Extramurel Awards. A representative of Labatt's Breweries presented the Varsity Awards. The buffet dinner was prepered end served by staff and students of the Food Technology Division.

Glazier and metal mechanic field is expanding, instructor says

Second in a series of articles about little-known College courses and programs.

There has been close to a 14 per cent increase in the number of employees hired by Toronto companies as glazier and metal mechanic apprentices over the last year, says George Brown instructor Tom Barr.

After 16 years working in the trade — which can involve glass glazing, installation of metal frames and entranceways, and all kinds of glasswork in shopping malls, new buildings and even churches — Barr has seen the industry grow tremendously. "I can remember when companies would hire helpers, who would eventually receive their journeyman papers simply because there was such a shortage of people," he recalls.

Even today, with an estimated 450 union members in the Toronto local, Barr says big contracts often force the union to call in qualified journeymen from outside the city. "The shortage of skilled workers ensures high wages and plenty of work," he says. A union journeyman receives about $11 an hour plus benefits.

In fact, the growth of the industry has seen the apprenticeship training program at George Brown expand from a small night school course in the late 1960s to a full-time, day program accommodating approximately 75 apprentices a year.

The program is divided into three sections: basic, intermediate and advanced. The seven-week basic session introduces students to different types of glass and methods of cutting it. The seven-week intermediate session emphasizes metal framing and doors, while the final eight-week advanced session deals with automatic doors and advanced work introduced at the two previous levels.

During each session, students take seven hours of theory and 14 hours of shop a week, plus courses in mathematics, physics, communications and blueprint reading. Graduates of the 8,000-hour apprenticeship program which takes about three years and includes the training at George Brown and on-the-job experience, have good future employment prospects.

In the past, most buildings were primarily made of bricks, providing plenty of work for bricklayers, but few jobs for glazier and metal mechanics. "But with the development of solar energy, more buildings are composed mainly of glass — like the Hydro building at Queen's Park," says Barr.

Glazier student Chris Dixon at work on bevel machine.

The work has its drawbacks, however. Working with glass can be dangerous, says Barr who's seen many accidents in his time. "I don't know too many journeymen who haven't received stitches somewhere along the line," he says. "But if you treat glass with respect and take the right precautionary steps, there shouldn't be any problem. If you're afraid of glass, you shouldn't be working with it," he says.

Operators have their hands full

Three thousand telephone calls a day is the estimated workload for George Brown College's six switchboard operators. "And that's when it isn't busy," says Supervisor Marjorie Parrett, who's been with the College for more than a decade.

In fact, Betty Palmer, Jean Clarke, Barbara Buckley and Viola Gibson all agree the really busy times are the last week in August, the first two weeks in September, and most of January. They wouldn't even like to guess at the number of calls received during those periods. With 29 incoming lines and 630 locals (inside the College) it's not hard to see why.

The operators handle a 15-hour day from 7:30 a.m. to 10:30 p.m. with overlapping shifts in the evening. The long hours can sometimes be monotonous. "In fact, one of the frustrating parts of the job is receiving calls from people who either don't speak English very well, or don't talk very clearly," says Marjorie. Another common complaint is that people phone again and again because there's no answer at a particular local in the College.

The job also has its good points. Talking with and helping people can be rewarding when they're congenial and co-operative. "What you really need is a sense of humor," says Kathleen Wells. "It's a lot of fun and I don't really want to leave," says Dorothy McGraw who's since retired.

Left: Dorothy McGraw, Marjorie Parrett and Betty Palmer handling calls.

Specialist hosts maintenance staff relations seminar

To help strengthen the relationship between College maintenance supervisors and workers, a three-day staff development seminar was held in April. Focusing on how to approach problems that arise between supervisors and workers, the seminar was lead by management specialist Robert Banks of Banks Associates.

Lectures, group discussions, films dealing with labor/management relations, and written tests to see how the supervisors would react in given situations, were combined to help improve communication between co-workers, says Casa Loma Building Maintenance Supervisor James Orr, one of 14 people attending the seminar.

Orr says the seminar was the result of the "changing nature of the building maintenance department at the College." In the past, outside contractors were often hired to do repairs and renovations. But in recent years, the department has taken on more skilled tradesmen, who do most of the College work themselves.

Trevor Nelson, group leader of the building maintenance staff at Kensington Campus, says the seminar prepared supervisors to deal with hypothetical situations. "It gave us insight into specific problems at the college that related to the simulated cases we studied during the three days."

The seminar was so successful, says Orr, that a sequel may be held in six months.

Supervisors from the custodian (cleaning) staff, a shop steward, and several skilled tradesmen also attended the seminar.

Celebrating 25 years

Architectural Dean Jack Stirling and co-ordinator for pipe trades Tom Murray were honored by fellow staff and administrators at an informal get-together in the architectural offices at Casa Loma recently. The celebration was in recognition of their respective 25 years service with the Provincial Institute of Trades and George Brown College. The two men are shown above cutting the anniversary cake.

Three new programs to open this fall

New two-year programs in Dance Training, Word Processing and Commercial Ceramics will get underway this fall.

The Dance Training program, under the direction of Lois Smith, will provide advanced-level dance students with the professional training they need to enter a ballet company. This will be accomplished through studio training in the practice and theory of classical ballet and other dance forms. Students will gain experience through frequent participation in public performances, lecture/demonstrations and workshops, in both original choreography and established repertoire. Courses include: ballet, pointe, character dance, modern, jazz, repertoire, Benesh notation, pas de deux, music theory, anatomy, make-up and acting.

The Word Processing program has been developed by the Business and Commerce Division to meet the shortage of skilled operators of electronic typewriters and other sophisticated equipment used in the modern office. Subjects include supervisory techniques, time mangement, business communications, work flow, budgeting, personnel training, development of manuals, and the role of word processing in the modern office. The program is designed to provide the necessary background to become a supervisor in a Word Processing Centre, after a period of practical experience. Hands-on experience on the most up-to-date video display text-editing typing systems is an important component of the program. Applicants with office experience and typing speed of 50 words-per-minute are eligible to apply for direct entry in the program's second year.

The Commercial Ceramics program, offered by the Fashion Technology Division, will cover all aspects of commercial ceramics production. Students will learn production techniques for items such as dinnerware, jugs, casseroles, architectural tiles and facings, vases, planters and other decorative pieces. They will study two- and three-dimensional, commercial design; ceramic production techniques; hand building; wheel work and sculptural modelling for prototype development. Decorative processes, including silk screen, hand and photographic methods; raised relief applied designs, and the use of plastics for mould making and decorating, are also included. To supplement the knowledge and skills gained in the shop facility, students will undertake additional studies in clay and glaze technology, kiln technology, ceramic chemistry, business management and communications.